Message

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Sent: 2/15/2019 8:10:49 PM
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CC: David Shanight [shanightdt@cdmsmith.com]; Curt Coover [cooverca@cdmsmith.com]
Subject: SSTOU Final 2018 Sampling Plan
Attachments: RSI-2803 Final 2018 Sampling Plan - SSTOU.pdf

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Here is the SSTOU SAP which includes sediment sampling.

1.3.2 Instream Sediment
Ecological reference values for COC concentrations of instream sediment have been selected to evaluate the influence of remediation and the extent of recontamination from upstream sources. These reference values are the threshold effect concentration (TEC) and the probable effect concentration (PEC) and were selected from consensus-based sediment quality guidelines for benthic organisms [MacDonald et al., 2000]. At metal COC concentrations above the TEC, benthic organisms may be affected by that COC, and at metal COC concentrations above the PEC, benthic organisms are likely to be affected by that COC (Table 1-4).

Table 1-4. Reference Values for Contaminant of Concern Concentrations (Dry Weight) of Instream Sediments in the Streamside Tailings Operable Units Contaminant of Concern	**Threshold of Effect Concentration (mg/kg-DW)**	**Probable Effect Concentration (mg/kg-DW)**
Arsenic	9.79	33
Cadmium	0.99	4.98
Copper	31.6	149
Lead	35.8	128
Mercury	0.18	1.06
Zinc	121	459

Note that the TEC and PEC were described in MacDonald et al. [2000].

Thank you,
Daryl